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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,819	04/13/2006	Seong-Young Lee	PANK01867 US	5258

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EXAMINER
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SALERNO, SARAH KATE

ART UNIT	PAPER NUMBER
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2814

MAIL DATE	DELIVERY MODE
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01/10/2012

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/575,819	LEE ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	SARAH SALERNO	2814	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 May 2011.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 5) ☒ Claim(s) 1-14, 16-22 and 24-34 is/are pending in the application.
- 5a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 6) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 7) ☒ Claim(s) 1-14, 16-22 and 24-34 is/are rejected.
- 8) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 9) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____.                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____.  | 6) <input type="checkbox"/> Other: ____.                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/18/10 has been entered.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-6, 8 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wantanabe et al. (US Patent 5,859,677) in view of Kingsley and in view of Ono et al. (US PGPub 2003/0133066).

Claim 1: Wantanabe teaches a thin film transistor comprising:

a gate electrode (1); a gate insulating layer formed on the gate electrode (115); a semiconductor layer (119) and disposed opposite the gate electrode; a source electrode (4) and a drain electrode (3) that are formed at least in part on the semiconductor layer and face each other, a passivation layer (117) formed on the source electrode, the drain

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electrode, and a portion of the semiconductor layer that is not covered with the source electrode and the drain electrode; a shielding electrode (14) formed on the passivation layer and disposed on a region between the source electrode and the drain electrode, wherein the shielding electrode overlaps the gate electrode, wherein the shielding electrode provides common voltage shielding for the region on which it is disposed, and wherein edges of the shielding electrode substantially overlap edges of the region between source electrode and the drain electrode in plan view (Fig. 7).

Watanabe does not teach the source electrode and the drain electrode each having branches, the branches of the source electrode extending toward the drain electrode, the branches of the drain electrode extending towards the source electrode, and the branches of the source electrode arranged in alternating manner with the branches of the drain electrode. Kingsley teaches the source electrode and the drain electrode each having branches(103, 102), the branches of the source electrode extending toward the drain electrode, the branches of the drain electrode extending towards the source electrode, and the branches of the source electrode arranged in alternating manner with the branches of the drain electrode to improve device performance (Col. 2; Fig. 1, 19). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the source and drain electrodes taught by Watanabe to have the branches as claimed to improve device performance as taught by Kingsley.

Watanabe and Kingsley do not wherein the shielding electrode comprises a transparent electrode. Ono teaches teach a shielding electrode (CLT) formed on the

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passivation layer and disposed on a region between the source electrode and the drain electrode, wherein the shielding electrode overlaps the gate electrode, wherein the shielding electrode provides common voltage shielding for the region on which it is disposed, and wherein the shielding electrode comprises a transparent electrode (FIG. 3, 19). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute one known element (Al) for another known element (ITO) resulting in the predictable result of forming a shielding electrode at a common voltage (KSR International Co. v. Teleflex Inc. (KSR), 550 U.S., 82 USPQ2d 1385 (2007)).

Claim 2: Wantanabe teaches the shielding electrode is electrically isolated (FIG. 7)

Claim 3: Wantanabe (Col. 5-6; Clm 3), Ono ([0106, 0154, and 0198]) and Kingsley (ABS) each teach a shielding electrode is supplied with a predetermined voltage.

Claim 4: Wantanabe teaches the predetermined voltage supplied to the shielding electrode is equal to or lower than a ground voltage (Col. 5-6; Clm 3).

Claim 5: Wantanabe teaches the predetermined voltage supplied to the shielding electrode is a negative voltage (Col. 5-6; Clm 3).

Claim 6: Ono teaches the shielding electrode comprises IZO or ITO [0079].

Claim 8: Ono teaches the passivation layer comprises an organic insulator [0010].

Claim 26: Wantanabe (Fig. 7) and Ono (FIG. 3, 19) teach the shielding electrode is formed on the channel portion of the thin film.

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wantanabe et al. (US Patent 5,859,677) in view of Kingsley and in view of Ono et al. (US PGPub 2003/0133066), as applied to claim 1 above, and further in view of Hong et al. (US PGPub 2004/0066481 of record).

Regarding claim 7, as described above, Wantanabe, Kingsley, and Ono substantially read on the invention as claimed, except Wantanabe, Kingsley, and Ono do not teach the shielding electrode has a shape of horseshoes. Hong teaches the shielding electrode has a shape of horseshoes for use in a display device (FIG. 4a-e; [0047-0051]). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Wantanabe, Kingsley, and Ono to have the shape of horseshoes for use in a display device as taught by Hong (FIG. 4a-e; [0047-0051]).

5. Claims 9-13, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hong et al. (US PGPub 2004/0066481 of record) in view of Ono et al. (US PGPub 2003/0133066) and Wantanabe et al. (US Patent 5,859,677).

Claim 9: Hong teaches a thin film transistor array panel comprising:  
a gate line and a data line;

a first thin film transistor including a control electrode, an input electrode, an output electrode, and a channel portion disposed between the input electrode and the output electrode and generating a gate signal to be applied to the gate line;

a second thin film transistor including a gate electrode connected to the gate line, a source electrode connected to the data line, a drain electrode, and a channel portion disposed between the source electrode and the drain electrode and transmitting a data signal from the data line in response to the gate signal from the gate line;

a pixel electrode connected to the drain electrode to receive the data signal; and  
a first shielding electrode disposed on the channel portion of the first thin film transistor (FIG. 4a-e; [0047-0051]).

Hong does not teach the first shielding electrode is formed of the same layer as the pixel electrode, the shielding electrode overlaps the control electrode and wherein the shielding electrode provides a common voltage shielding for the region on which it is disposed. Ono teaches the first shielding electrode is formed of the same layer as the pixel electrode, the shielding electrode overlaps the control electrode and wherein the shielding electrode provides a common voltage shielding for the region on which it is disposed for use in a display device (Fig. 3, 19 and 27). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Hong to have the first shielding electrode is formed of the same layer as the pixel electrode, overlaps the control electrode and provides a common voltage shielding for the region on which it is disposed for use in a display device as taught by Ono (Fig. 3, 19 and 27).

Ono and Hong do not teach the edges of the shielding electrode substantially overlap edges of the region between the source electrode and the drain electrode in plan view or the common electrode facing the pixel electrode. Watanabe teaches the shielding electrode (14) substantially overlap edges of the region between the source electrode (3/4) and the drain electrode (4/4) in plan view or the common electrode (121) facing the pixel electrode (105) (Fig. 7, 10) to improve device performance (ABS). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Ono and Hong to have the shielding electrode overlapping the source and drain electrodes and the common electrode facing the pixel electrode to improve device performance as taught by Watanabe (ABS, Fig. 7, 10)

Claim 10: Hong teaches the shielding electrode is electrically isolated (FIG. 4a-e; [0047-0051]).

Claim 11: Hong teaches a shielding electrode is supplied with a predetermined voltage to prevent the accumulation of electric charge on the light-shield film (FIG. 4a-e; [0047-0051]).

Claim 12: Watanabe teaches the predetermined voltage supplied to the shielding electrode is equal to or lower than a ground voltage (Col. 5-6; Clm 3).

Claim 13: Watanabe teaches the predetermined voltage supplied to the shielding electrode is a negative voltage (Col. 5-6; Clm 3).

Claim 18: Hong teaches the passivation layer comprises an organic insulator (FIG. 4a-e; [0047-0051]).

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hong et al. (US PGPub 2004/0066481 of record) in view of Ono et al. (US PGPub 2003/0133066) and Wantanabe et al. (US Patent 5,859,677), as applied to claim 9 above, and further in view of Kubota (JP Pub No. 10-098190 of record).

Regarding claim 14, as described above, Hong, Ono and Wantanabe substantially read on the invention as claimed, except Hong, Ono and Wantanabe do not teach the predetermined voltage supplied to the first shielding electrode has a magnitude for turning of the second thin film transistor. Kubota teaches the predetermined voltage supplied to the first shielding electrode has a magnitude for turning of the second thin film to prevent characteristic degradation of the image display device (Abs). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Hong, Ono and Wantanabe to have the predetermined voltage supplied to the first shielding electrode has a magnitude for turning of the second thin film transistor to prevent characteristic degradation of the image display device as taught by Kubota [0039] (Abs).

7. Claims 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hong et al. (US PGPub 2004/0066481 of record) in view of Ono et al. (US PGPub 2003/0133066) and Wantanabe et al. (US Patent 5,859,677), as applied to claim 9 above, and further in view of Kubo (US Patent 6,091,467 of record)

Regarding claim 16, as described above, Hong, Ono and Wantanabe substantially read on the invention as claimed, except Hong, Ono and Wantanabe do not teach a second shielding electrode disposed on the channel portions of the second thin film transistor and including the same layer as the pixel electrode. Kubo teaches a second shielding electrode disposed on the channel portions of the second thin film transistor and including the same layer as the pixel electrode (Description of the Related Art; Figs. 9-10, 12) as being known in the art. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Hong, Ono and Wantanabe to have a second shielding electrode disposed on the channel portions of the second thin film transistor and including the same layer as the pixel electrode as taught by Kubo to be known in the art (Description of the Related Art; Figs. 9-10, 12)

Claim 17: Kubo teaches an insulating layer disposed between the first and the second thin film transistors and the first and the second shielding electrodes (Description of the Related Art; Figs. 9-10, 12).

8. Claims 19-22, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubota (JP Pub No. 10-098190 of record), in view of Ono et al. (US PGPub 2003/0133066) and Wantanabe et al. (US Patent 5,859,677).

Claim 19: Kubota teaches a display device comprising:

a gate line (8) and a data line; a first thin film transistor (4) including a gate electrode (8), a source electrode (10), a drain electrode (17) and a channel portion

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disposed between the source electrode and the drain electrode and generating a gate signal to be applied to the gate line; a second thin film transistor (4) transmitting a data signal from the data line in response to the gate signal from the gate line (FIG. 1, 5 [0032-0060]);

a pixel electrode connected to the second thin film transistor to receive the data signal; a shielding electrode (3) disposed on the channel portion between the source and the drain electrode of the first thin film transistor; and a common electrode (2) facing the pixel electrode (FIG. 1, 5 [0032-0060]),

and wherein the shielding electrode overlaps the gate electrode (Fig. 2; [0036-0038]).

Kubota does not teach a shielding electrode is formed of the same layer as the pixel electrode. Ono teaches a shielding electrode disposed on the channel portions of the thin film transistor and formed of the same layer as the pixel electrode for use in a display device (Fig. 3, 19 and 27). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Ono to have the shielding electrode is formed of the same layer as the pixel electrode for use in a display device as taught by Ono (Fig. 3, 19 and 27).

Ono and Kubota do not teach the edges of the shielding electrode substantially overlap edges of the region between the source electrode and the drain electrode in plan view or a common voltage is applied to the common electrode, a voltage lower than the common voltage is applied to the shielding electrode so that the shielding electrode provides a common voltage shielding for the are on which it is disposed.

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Watanabe teaches the shielding electrode (14) substantially overlap edges of the region between the source electrode (3/4) and the drain electrode (4/4) in plan view or the or a common voltage is applied to the common electrode, a voltage lower than the common voltage is applied to the shielding electrode so that the shielding electrode provides a common voltage shielding for the are on which it is disposed Wantanabe (Col. 5-6; Clm 3; Fig. 7, 10 ) to improve device performance (ABS). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Ono and Hong to have the shielding electrode overlapping the source and drain electrodes and a common voltage is applied to the common electrode, a voltage lower than the common voltage is applied to the shielding electrode so that the shielding electrode provides a common voltage shielding for the are on which it is disposed to improve device performance as taught by Wantanabe (ABS, Col. 5-6; Clm 3; Fig. 7, 10)

Claim 20: Wantanabe teaches the shielding electrode faces, the common electrode (FIG. 7, 10).

Claim 21: Wantanabe teaches the shielding electrode is supplied with a predetermined voltage lower than a voltage applied to the common electrode (Col. 5-6; Clm 3).

Claim 22: Kubota teaches the predetermined voltage supplied to the first shielding electrode has a magnitude for turning of the second thin film transistor [0004, 0013, 0018-0019, 0022, 0050-0059].

Claim 24: Ono teaches a dielectric disposed between the shielding electrode and the common electrode (FIG. 3 & 19).

Claim 25: Ono teaches the dielectric layer comprises a liquid crystal layer (FIG. 3 & 19).

9. Claims 27, and 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubota (JP Pub No. 10-098190 of record), in view of Ono et al. (US PGPub 2003/0133066) and Wantanabe et al. (US Patent 5,859,677).

Claim 27: Kubota teaches a thin film transistor array panel comprising:

a gate line (8) and a data line; a first thin film transistor (4) including a control electrode, an input electrode, an output electrode, and a channel portion disposed between the input electrode and the output electrode and generating a gate signal to be applied to the gate line;

a second thin film transistor including a gate electrode connected to the gate line, a source electrode connected to the data line, a drain electrode, and a channel portion disposed between the source electrode and the drain electrode and transmitting a data signal from the data line in response to the gate signal from the gate line;

a pixel electrode connected to the drain line to receive the data signal; and

a first shielding electrode (3) disposed on the channel portion between the source electrode and drain electrode of the second thin film transistor, and wherein the shielding electrode overlaps the gate electrode (8) (FIG. 1, 5 [0032-0060]).

Kubota does not teach the second thin film transistor is formed of the same layer as the pixel electrode. Ono teaches a shielding electrode (CLT) is formed of the same layer as the pixel electrode (27) and the first shielding electrode provides a common voltage shielding for the region on which it is disposed for use in a display device (Fig. 3, 19 and 27). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Hong to have the shielding electrode is formed of the same layer as the pixel electrode and providing a common voltage shielding for the region on which it is disposed for use in a display device as taught by Ono (Fig. 3, 19 and 27).

Ono and Kubota do not teach the edges of the shielding electrode substantially overlap edges of the region between the source electrode and the drain electrode in plan view, a common electrode facing the pixel electrode and wherein when a common voltage is applied to the common electrode, a voltage lower than the common voltage is applied to the first shielding electrode so that the first shielding electrode provides common voltage shielding for the area on which it is disposed. Wantanabe teaches the edges of the shielding electrode substantially overlap edges of the region between the source electrode and the drain electrode in plan view, a common electrode facing the pixel electrode and wherein when a common voltage is applied to the common electrode, a voltage lower than the common voltage is applied to the first shielding electrode so that the first shielding electrode provides common voltage shielding for the area on which it is disposed (Col. 5-6; Clm 3; Fig. 7, 10 ) to improve device performance (ABS). Therefore it would have been obvious to one of ordinary skill in the art at the

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time the invention was made to have modified the device taught by Ono and Hong to have the shielding electrode overlapping the source and drain electrodes and a common voltage is applied to the common electrode, a voltage lower than the common voltage is applied to the shielding electrode so that the shielding electrode provides a common voltage shielding for the are on which it is disposed to improve device performance as taught by Wantanabe (ABS, Col. 5-6; Clm 3; Fig. 7, 10)

Claim 29: Kubota teaches the first shielding electrode is electrically isolated (FIG. 1, 5 [0032-0060]).

Claim 30: Ono teaches the first shielding electrode comprises a transparent electrode [0079].

Claim 31: Kubota teaches the first shielding electrode is supplied with a predetermined voltage (FIG. 1, 5 [0032-0060]).

Claim 33: Wantanabe teaches the shielding electrode overlaps the gate electrode.

Claim 34: Wantanabe teaches edges of the shielding electrode substantially overlap edges of a region between the source electrode and the drain electrode in plan view.

10. Claims 28 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubota (JP Pub No. 10-098190 of record) in view of Ono et al. (US PGPub 2003/0133066) and Wantanabe et al. (US Patent 5,859,677), as applied to claim 9 above, and further in view of Kubo (US Patent 6,091,467 of record)

Regarding claim 29, as described above, Kubota, Ono and Wantanabe substantially read on the invention as claimed, and Kubota teaches a second shielding electrode disposed on the channel portions of the second thin film transistor and including the same layer as the pixel electrode. Kubota, Ono and Wantanabe do not teach a second shielding electrode disposed on the channel portions of the second thin film transistor and including the same layer as the pixel electrode. Kubo teaches a second shielding electrode disposed on the channel portions of the second thin film transistor and including the same layer as the pixel electrode (Description of the Related Art; Figs. 9-10, 12) as being known in the art. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device taught by Kubota, Ono and Wantanabe to have a second shielding electrode disposed on the channel portions of the second thin film transistor and including the same layer as the pixel electrode as taught by Kubo to be known in the art (Description of the Related Art; Figs. 9-10, 12)

Claim 32: Kubo teaches the second thin film transistor is formed of the same layer as the pixel electrode.

### ***Response to Arguments***

11. Applicant's arguments with respect to claims 1-14, 16-22, and 24-34 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SARAH SALERNO whose telephone number is (571)270-1266. The examiner can normally be reached on M-R 8:00-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. K. S./  
Examiner, Art Unit 2814

/Wael M Fahmy/  
Supervisory Patent Examiner, Art Unit 2814